WHAT IS CLAIMED IS:

1. A simple faucet water-filtering device comprising a main body and a connecting section, an upper end of the connecting section being adapted to connect with a spout of a faucet, a lower end of the connecting section being screwed with an upper cap of the main body, a lower end of the main body being formed with a water outlet, the faucet water-filtering device being characterized in that the main body including the upper cap, a casing, a flow-conducting screen cover, an energy cup and a water discharging connector, the casing defining therein a receiving space in which the energy cup is placed, an outer wall of the energy cup being formed with a spiral path, whereby a spiral water way is defined between the outer wall of the energy cup and inner wall of the receiving space, a water-filtering material being contained in the energy cup for acting on the water flowing through the energy cup, whereby after filtered, the water flows through the spiral water way and then flows out from the water outlet of the bottom of the casing for serving a user.

2. The simple faucet water-filtering device as claimed in claim 1, wherein the connecting section includes a faucet locking collar, an inner locking collar, an inner bushing and a two-way connector, the faucet locking collar defining a through hollow cavity, an upper end of the faucet locking collar being formed with an inner conic opening, a wall of the cavity being formed with an inner thread below the inner conic opening, the inner locking collar

defining a cavity, an outer face of the inner locking collar being formed with an outer thread, an upper end of the inner locking collar being formed with a conic section adapted to the inner conic opening of the faucet locking collar, the inner bushing being placed in the cavity of the inner locking collar.

3. The simple faucet water-filtering device as claimed in claim 2, wherein the conic section of the inner locking collar has extensible splits.

4. The simple faucet water-filtering device as claimed in claim 2, wherein upper end of the two-way connector is screwed in the inner thread of the lower end of the faucet locking collar, while lower end of the two-way connector is screwed in the inner thread of the upper cap.

5. The simple faucet water-filtering device as claimed in claim 1, wherein the connecting section is a movable faucet, upper end of the movable faucet being formed with inner thread or outer thread for screwing on a faucet.

6. The simple faucet water-filtering device as claimed in claim 1, wherein outer wall face of the upper end of the casing is formed with outer thread, the upper cap being screwed on the outer thread of the upper end of the casing to fix the flow-conducting screen cover and the energy cup in the casing.

7. The simple faucet water-filtering device as claimed in claim 2, wherein outer wall face of the upper end of the casing is formed with outer thread, the upper cap being screwed on the outer thread of the upper end of the casing to fix the flow-conducting screen cover and the energy cup in the casing.

8. The simple faucet water-filtering device as claimed in claim 1, wherein the water discharging connector is screwed with the water outlet of the bottom of the casing.

9. The simple faucet water-filtering device as claimed in claim 2, wherein the water discharging connector is screwed with the water outlet of the bottom of the casing.

10. The simple faucet water-filtering device as claimed in claim 1, wherein the flow-conducting screen cover is overlaid on the upper opening of the energy cup, a center of the flow-conducting screen cover being formed with a funnel-shaped conducting section, a circumference of the flow-conducting screen cover being formed with multiple orifices.

11. The simple faucet water-filtering device as claimed in claim 2, wherein the flow-conducting screen cover is overlaid on the upper opening of the energy cup, a center of the flow-conducting screen cover being formed with a funnel-shaped conducting section, a circumference of the flow-conducting screen cover being formed with multiple orifices.

12. The simple faucet water-filtering device as claimed in claim 6, wherein the flow-conducting screen cover is overlaid on the upper opening of the energy cup, a center of the flow-conducting screen cover being formed with a funnel-shaped conducting section, a circumference of the flow-conducting screen cover being formed with multiple orifices.

13. The simple faucet water-filtering device as claimed in claim 7, wherein the flow-conducting screen cover is overlaid on the upper opening of the energy cup, a center of the flow-conducting screen cover being formed with a funnel-shaped conducting section, a circumference of the flow-conducting screen cover being formed with multiple orifices.

14. The simple faucet water-filtering device as claimed in claim 10, wherein the conducting section of the flow-conducting screen cover is formed with slits.

15. The simple faucet water-filtering device as claimed in claim 14, wherein the conducting section is formed with reinforcing ribs and adjoining face adjacent to the slits of the conducting section for reinforcing the conducting section.

16. The simple faucet water-filtering device as claimed in claim 11, wherein the conducting section of the flow-conducting screen cover is formed with slits.

17. The simple faucet water-filtering device as claimed in claim 12, wherein the conducting section of the flow-conducting screen cover is formed with slits.

18. The simple faucet water-filtering device as claimed in claim 13, wherein the conducting section of the flow-conducting screen cover is formed with slits.

19. The simple faucet water-filtering device as claimed in claim 1, wherein the water-filtering material is calcium sulfite.

20. The simple faucet water-filtering device as claimed in claim 2, wherein the water-filtering material is calcium sulfite.